

Amendments To the Claims:

Please amend the claims as shown.

1. (currently amended) A Turbine (1), in particular a gas turbine, comprising:
a swivel-mounted rotationally symmetrical rotor;
a compressor mounted along the rotor;
a combustion chamber mounted along the rotor;
a turbine section mounted along the rotor and formed of a plurality of turbine stages
~~which along a swivel mounted rotationally symmetrical rotor (2) has a compressor (3), a~~
~~combustion chamber (5) and a turbine section (7) formed of a plurality of turbine stages (15), in~~
~~which each turbine stage (15) comprises mutually interacting blades (17) and vanes (16) which~~
~~can be~~ are ~~surrounded by a flow of hot working fluid (13); with and~~
a coolant provided by the compressor (3) for cooling the blades and the vanes (16, 17),
~~which can the coolant~~ flowing ~~in a channel along the rotor (2) from the compressor (3) to the~~
~~turbine section (7) and into which a liquid can~~ is adapted to be introduced for cooling, wherein
~~the channel extends outside the rotor (2) and such~~ that the liquid can is ~~be~~ introduced into the
channel in a region close to the compressor.
2. (currently amended) A Turbine (1) according to Claim 1, wherein the channel runs along
the rotor (2) and that the latter rotor can be is cooled by the coolant.
3. (currently amended) A Turbine (1) according to Claim 1 or 2, wherein the channel is an
annular channel (20) formed coaxially to the rotor (2) and through which the coolant flows, the
~~external channel wall (30) of which, radially facing the combustion chamber (5), is a torque-~~
~~proof and thermally insulates~~ insulating external wall of the channel from radially facing the
combustion chamber (5).
4. (currently amended) A Turbine (1) according to one of Claims 1 to 3, wherein the
torque-proof internal channel wall is at a distance spaced from the surface of the rotor (2).

5. (currently amended) A ~~T~~turbine (1) according to ~~one of~~ Claims 1 ~~to~~ 4, wherein the liquid ~~can be~~ is introduced into the annular channel (20) ~~by means of~~ a nozzle (28).
6. (currently amended) A ~~T~~turbine (1) according to ~~one of~~ Claims 1 ~~to~~ 5, wherein the liquid is water, ~~in particular distilled water~~.
7. (currently amended) A ~~T~~turbine (1) according to ~~one of~~ Claims 1 ~~to~~ 6, wherein the coolant is ~~compressor~~ outlet air from the compressor.
8. (currently amended) A ~~T~~turbine (1) according to ~~one of~~ Claims 1 ~~to~~ 7, wherein a flow channel downstream of the compressor outlet in the direction of flow of the compressor air contains a diffuser rib (25) passing through said flow channel.
9. (currently amended) A ~~T~~turbine (1) according to Claim 9~~8~~, wherein the radially external end of the diffuser rib (25) is secured on the stator of the turbine (1) and the radially internal end opposite the external end faces the rotor (2).
10. (currently amended) A ~~T~~turbine (1) according to ~~one of~~ Claims 1 ~~to~~ 10, wherein the internal wall (29) and the external channel wall (3) are supported by ~~means of~~ support ribs on an internal housing of the turbine (1).
11. (currently amended) A ~~T~~turbine (1) according to Claim 9, ~~10 or 11~~, wherein at least one rib is hollow and a pipe (26) runs in ~~it~~ the rib, the pipe communicating which on the stator side ~~communicates~~ with a source of liquid and on the rotor side with the nozzle (28) used to introduce the liquid in the annular channel.
12. (currently amended) A ~~G~~gas turbine with a turbine (1) ~~according to one of the preceding claims~~ comprising:
a swivel-mounted rotationally symmetrical rotor;
a compressor mounted along the rotor;

a combustion chamber mounted along the rotor;
a turbine section mounted along the rotor formed of a plurality of turbine stages
in which each turbine stage comprises mutually interacting blades and vanes which are
surrounded by a flow of hot working fluid; and
a coolant provided by the compressor for cooling the blades and the vanes, the coolant
flowing in a channel along the rotor from the compressor to the turbine section and into which a
liquid is adapted to be introduced for cooling, wherein the channel extends outside the rotor, and
the liquid is introduced into the channel in a region close to the compressor.

13. (new) A turbine according to Claim 1, wherein the turbine is a gas turbine.
14. (new) A turbine according to Claim 2, wherein the channel is an annular channel formed coaxially to the rotor and through which the coolant flows, a torque-proof and thermally insulating external wall of the channel radially facing the combustion chamber.
15. (new) A turbine according to Claim 2, wherein the torque-proof internal channel wall is spaced from the surface of the rotor.
16. (new) A turbine according to Claim 2, wherein the liquid is introduced into the annular channel by a nozzle.
17. (new) A turbine according to Claim 6, wherein the liquid is distilled water.
18. (new) A turbine according to Claim 2, wherein the coolant is outlet air from the compressor.
19. (new) A turbine according to Claim 2, wherein a flow channel downstream of the compressor outlet in the direction of flow of the compressor air contains a diffuser rib ~~(25)~~ passing through said flow channel.

20. (new) A turbine according to Claim 2, wherein the internal wall and the external channel wall are supported by support ribs on an internal housing of the turbine.